

Safoan Miah

United Kingdom, London

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EDUCATION

Northeastern University (London) — B.S in Data Science

Sep 2023 – Sep 2026

- **Relevant Courses:** ML, Data Mining, Object-Oriented C#, Statistics, Databases, Visualizations

Mulberry Academy Shoreditch — A Levels

Sep 2021 – Sep 2023

- **Subjects:** Computer Science, Physics, Maths, EPQ

PROJECTS & SKILLS

RL Emergency Autonomous Vehicle (CARLA)

github.com/SafoanMiah/RL-emergency-autonomous-driving

- Developed a Reinforcement Learning model for emergency vehicles, prioritizing speed and travel time through a custom env with sensors, and PPO for training, model was 4x faster in point A-B navigation compared to standard built-in autopilot.

Deep Convolutional Neural Network (Quick Draw)

<https://github.com/SafoanMiah/quick-draw-neural-net>

- Developed a Deep Learning CNN using PyTorch to learn from the quick draw dataset, consisting of 50million drawings. Achieved a ~ 90% accuracy and deployed it as a Web API to be used on personal site.

Programming: Python (Data, Pandas, NumPy), PostgreSQL, PyTorch, Data Visualization Tools, C#

Machine Learning: Regression, CNNs, Clustering, Neural Networks, Reinforcement Learning

WORK & EXPERIENCE

Software Academy Programming Tutor

Apr 2024 — Present

- Mentored Python and Data projects, simplifying technical concepts for non-technical learners.
- Collaborated with co-workers to create plans and applications to track and monitor the student's progress and engagement. Discovered that average grades increased by 60% within 2 semesters.

Outlier — AI Evaluator

Feb 2024 – Present

- Assessed and ranked AI-generated maths solutions, enhancing model accuracy by 15%.
- Developed a structured evaluation framework, providing feedback, and correcting the mathematical model, improving model reliability and reasoning for deployment.

HSBC insight — Global Banking & Global Markets — Intern

Apr 2024

- Developed actionable insights using financial data, with a regression model, contributing to a strategic case report that improved market evaluation by 30% over using no model.
- Led quantitative analysis of 10+ case studies through quantitative analysis, revealing critical trends that shaped marketing and financial strategies.

CERTIFICATIONS & COURSES

Data Science: Machine Learning Bootcamp, SQL Bootcamp, IBM Data Science Cert, PyTorch

Finance & Markets: Bloomberg Markets, AmplifyME Finance

Additional: J.P. Morgan STEM program, RAF Air Cadets (3 years)